Laser Harp (Frameless - Open Source)

Written By: Ruete

🔧 TOOLS:

- Aligator Leads (1)
- Glue (1)
- Insulating tape (1)
- Long Nose Pliers (1)
- Multimeter (1)

⚙ PARTS:

- Protoboard (1)
- Arduino Uno (1)
- Green Laser Pointer (1)
- Resistor 220 ohms 1/4W (1)
- Power Supply, 5V DC, regulated 1A minimum (1)
- Power Supply, 15V DC, regulated 5A minimum (1)
- Power Supply, 9V DC, regulated 1A minimum (1)
- ULN2003 (1)
- Jumper Wire (1)
- 2N2222 TRANSISTOR (1)
- LDR Light Sensor (1)
- MIDI jack (1)
- 5k TRIMPOT (1)

- Wine Cork Stopper (1)
- Small Mirror Piece (1)
- Green Laser Safety Goggles (1)
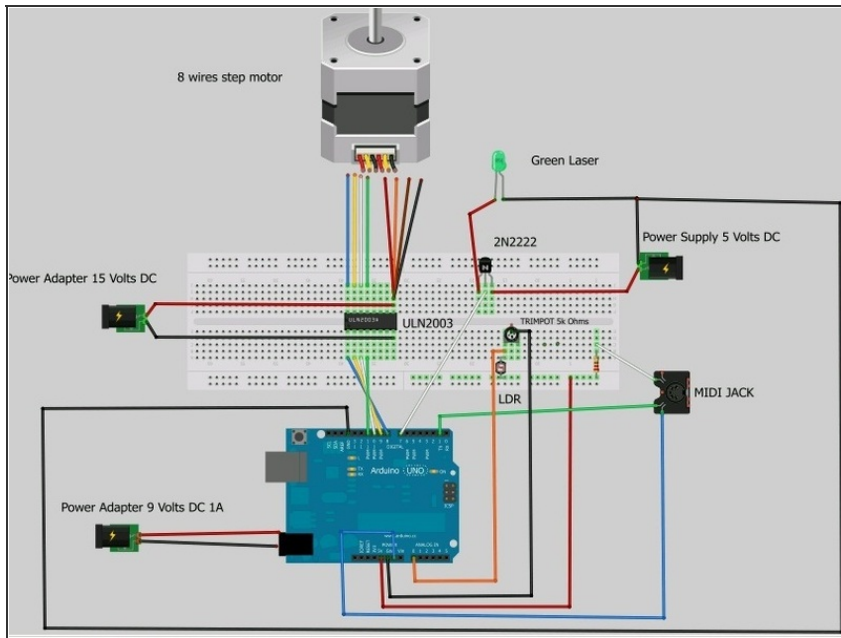- White Gloves (1)
- Step motor (1)

SUMMARY

I felt in love with Laser Harps the first time I saw Jean Michel Jarre play it live in concert (Rendevous 2 song). Since technology has developed so much it is now possible to build your own homemade DIY Frameless Laser Harp.

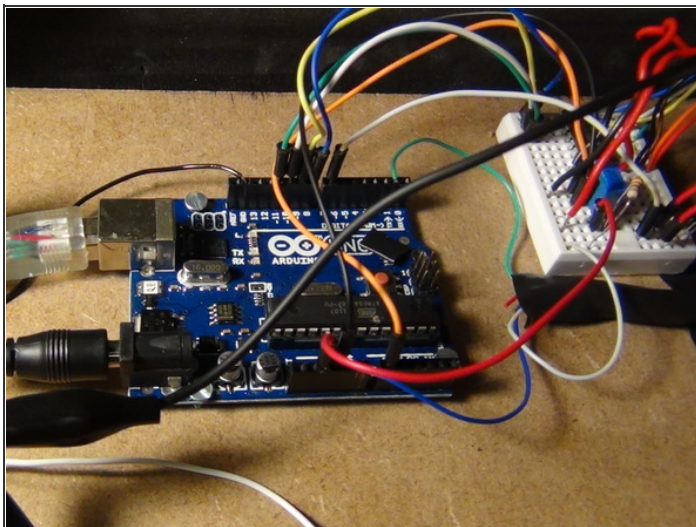## Step 1 — Laser Harp (Frameless - Open Source)
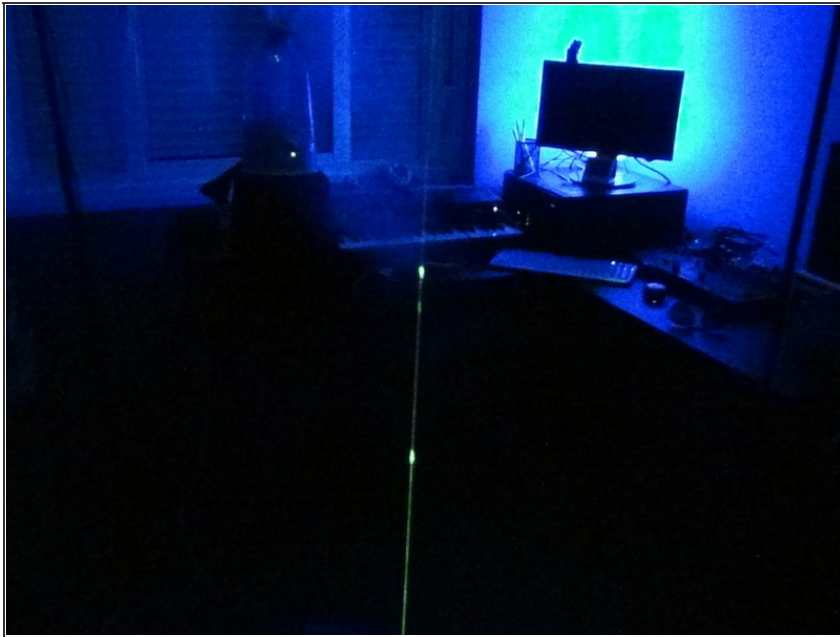

- Testing phase from Studio.

Step 2

- Here is a Fritzing drawing with all componentes wired using a solderless breadboard for simplicity. No soldering required.
- LIst of all components is featured above.

Step 3

- Arduino programing code:
- // Open Source Laser Harp by Ruete // Free for home use. Comercial use proibited. // Circuito MIDI: // * digital in 1 conectado ao MIDI jack pin 5 (DO MIDI JACK) // * MIDI jack pin 2 conectado ao ground (DO ARDUINO) // * MIDI jack pin 4 (DO MIDI JACK) conectado ao +5V (DO ARDUINO) por um resistor de 220-ohm int buttonPresses = 0; // quantas vezes a nota foi tocada int LaserState = LOW; // laser "off" int delayligado = 3; //minimo 3 para aparecer direito o laser int delaydesligado = 3; // minimo 3 para separar direito os raios em 9 long previousMillis = 0; // guarda ultima vez que o

Step 4
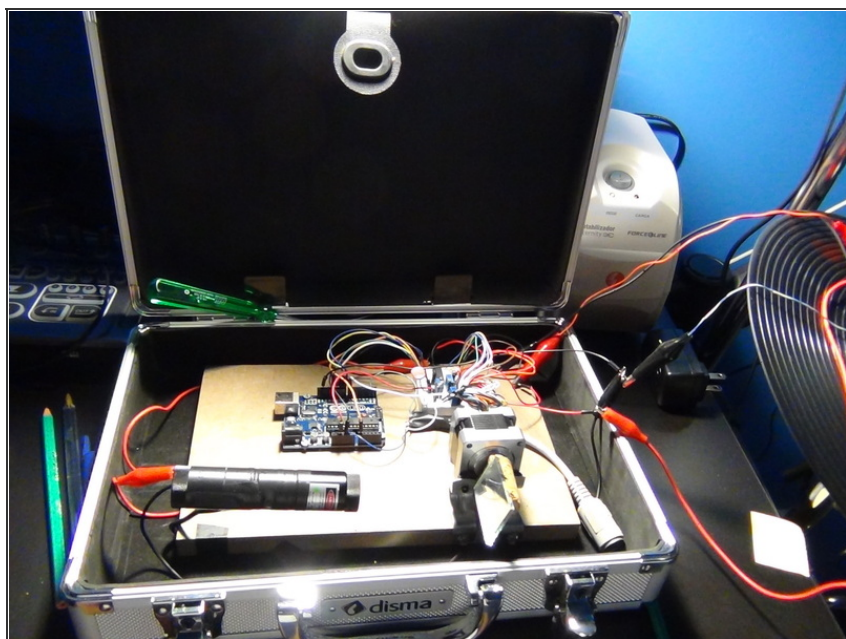
- This is an open source laser harp project. The latest version of Arduino programing code can be downloaded at my blog. Also there is a video demostration there.

Step 5
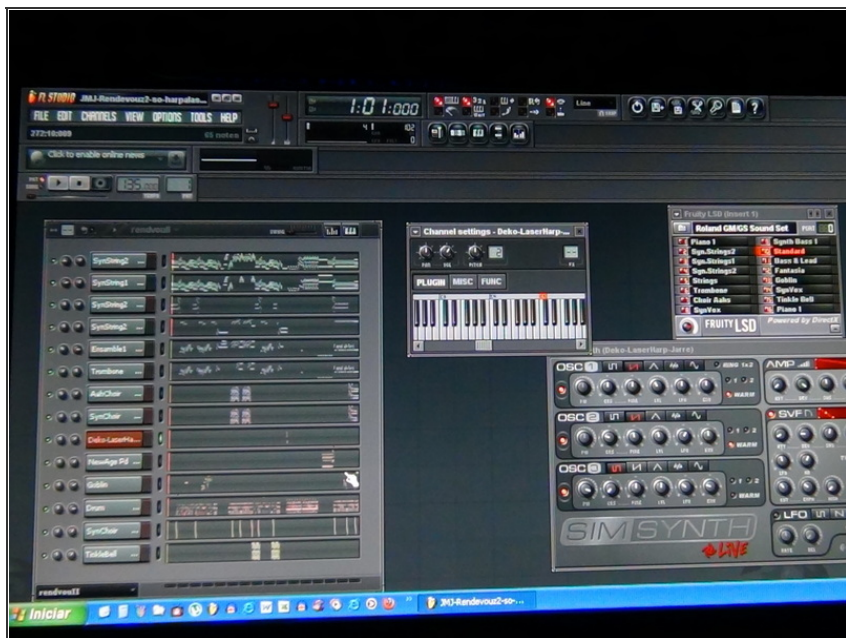
- Any questions and improvement ideas are welcome. Visit my blog at:
- http://harplaser.blogspot.com

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